

ABSTRACT OF THE DISCLOSURE

Particle beam irradiation equipment and a method of adjusting irradiation nozzle, which can ensure a long range and high dose uniformity at any field size are provided. The particle beam irradiation equipment comprises charged particle beam generation equipment and an irradiation nozzle for irradiating a charged particle beam extracted from the charged particle beam generation equipment to an irradiation target. The irradiation nozzle comprises a first scatterer device including a first scatterer for spreading out the charged particle beam into a Gaussian-like distribution, and multiple stages of second scatterer devices including second scatterers for producing a uniform intensity distribution of the charged particle beam having been spread out into a Gaussian-like distribution by the first scatterer. For forming irradiation fields having sizes different from each other, the second scatterer devices are disposed downstream of the first scatterer device in the direction of travel of the charged particle beam at the spacing depending on the difference in the field size.